USER MANUAL

LM-DT200

HDMI Fiber Optic Transmission

1.0 Introduction

2.0 Panel Description

3.0 Function Specification

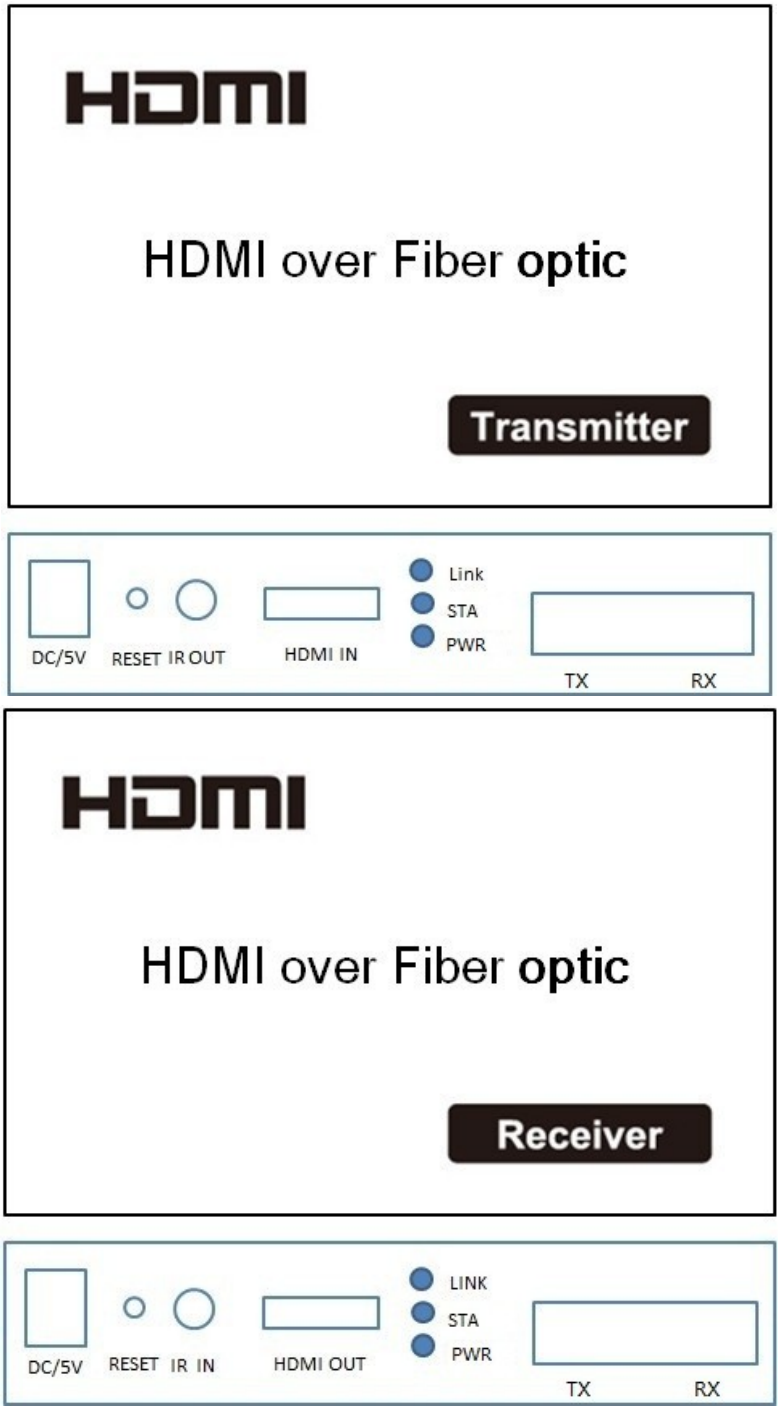
4.0 Connection and operation

## 1.0 Introduction

LM-DT200 HDMI Fiber Optical Extender Transmission is a perfect solution for transmitting HDMI audio and video through the fiber, the set of device includes a sender of DT200T and a receiver of DT200R. Our products transmit the HD video over optical fiber, which making the images clearer as well as the transmission more stable. At the same time, the product has the built-in IR remote control function.

## 2.0 Panel Description

### 2.1 Front Panel




| | HDMI TX | HDMI RX |
|---|---|---|
| HDMI PORT | Video Input | Video Output |
| IR PORT | IR Input | IR Output |
| Fiber Port SC | Optic-fiber Data Transmission | |

| | |
|---|---|
| RESET KEY | Hold down the key for 8 seconds after power on, the model will restore default settings |

2.2 Indicator led.

| Indicator led | Status | |
|---|---|---|
| FX | Light On | The transmission rate is correct |
| | Light Off | The transmission rate is not correct |
| Link act | Light On | Fiber Link up |
| | Flash | Packets of data are transmitting in the indicating port |
| Dpx | Light On | In the State of full-duplex |
| | Light Off | In the State of half-duplex |

## 3.0 Function Specification

1) HDMI 1.3/HDCP1.1 & 1.2

2) Both Optic-fiber transmission and Ethernet Transmission

3) Support point-to-point mode, one point-to-many mode and cascaded transmission mode.

4) built-in IR remote control function, you can control the set-top box at the receiving site using the IR remote control.

5) Pure hardware design, just plug and play, no need to install extra software.

| **Video Parameter** | |
|---|---|

| | |
|---|---|
| Video Resolution | 640X480 @ 60fps 800X600 @ 60fps |
| | 1024X600 @ 60fps 1024X768 @ 60fps |
| | 1152X864 @ 60fps 1280X600 @ 60fps |
| | 1280X720@ 60fps 1280X768@ 60fps |
| | 1280X800@ 60fps 1280X960@ 60fps |
| | 1280X1024@ 60fps 1440X1050@ 60fps |
| | 1440x900 @ 60fps 1600x900 @ 60fps |
| | 1660x1200 @ 60fps 1680x1050 @ 60fps |
| | 1920x1080 @ 60fps 1920 x1200 @ 60fps |
| Audio | 32kHz, 44.1kHz and 48kHz |
| Infrared Support | 38KHz; NEC code |
| HDMI Version | HDMI 1.3 |
| HDCP Version | HDCP 1.2 |

| **Other Parameters** | |
|---|---|
| Power input | AC input: 100V - 240V (50 - 60Hz) |
| Max Power Consumption | DT200T: 5W |
| | DT200R: 5W |
| Size (L-W-H) | 110×80×30 mm |
| Net Weight | 456g*2pcs |
| Operating Temperature/Humidity | 0 to 70 Degree Celsius / 10% - 80%RH(no condensation) |
| Storage Temperature/Humidity | -10 to 80 Degree Celsius / 5% -90% RH(no condensation) |

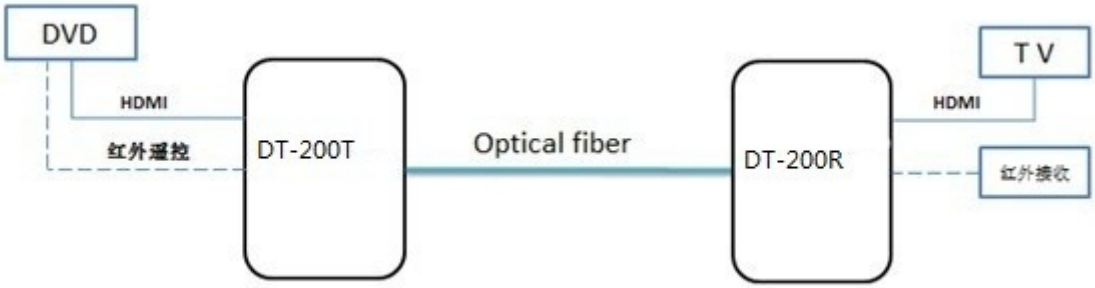
**Fiber Parameter**

| Product Model | Max Distance | Fiber type | Optical Interface | Wave Length | Optical Power | Receiving Sensitivity | Link Budget |
|---|---|---|---|---|---|---|---|
| DT200-S20 | 10-20KM | Single mode | SC/FC | 1310nm | -11 to -3dBm | -36dBm | -25dBm |

## 4.0 Connection and operation

1. Please connect the HDMI signal source to the DT200T.
2. Connect DT200R to the HD displayer.
3. Between DT200T and DT200R (SC port-to-SC port) use optical fiber to connect.
4. IR remote control function, connect the IR receiver to the HDMI TX and connect the IR transmitter to the HDMI RX.
5. Power on the device, POWER light on, then it will do the self-checking job with the other indictors blinking automatically. When the Link light flash, the device starts up.

**Application diagram**


DVD
HDMI
红外遥控
DT-200T
Optical fiber
DT-200R
TV
HDMI
红外接收